

NOTICE OF DRAFTSPERSON'S
PATENT DRAWING REVIEWThe drawing(s) filed (insert date) 11/3/98 are:

- A. approved by the Draftsperson under 37 CFR 1.84 or 1.152.
 B. objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawing must be submitted according to the instructions on the back of this notice.

1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings:	8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)
Black ink. Color: _____	Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side; except for graphs. Fig(s): _____
Color drawings are not acceptable until petition is granted.	
Fig(s): _____	
Pencil and non black ink not permitted. Fig(s): _____	
2. PHOTOGRAPHS. 37 CFR 1.84 (b)	9. SCALE. 37 CFR 1.84(k):
1 full-tone set is required. Fig(s): _____	Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s): _____
Photographs not properly mounted (must use bristol board or photographic double-weight paper). Fig(s): _____	
Foor quality (half-tone). Fig(s): _____	
3. TYPE OF PAPER. 37 CFR 1.84(e)	10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(i)
Paper not flexible, strong, white, and durable. Fig(s): _____	Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality). Fig(s): _____
Erasures, alterations, overwritings; interlineations, folds, copy, machine marks not accepted. Fig(s): _____	11. SHADING. 37 CFR 1.84(m)
Mylar, vellum paper is not acceptable (too thin). Fig(s): _____	Solid black areas pale. Fig(s): _____
Sheet(s): _____	Solid black shading not permitted. Fig(s): _____
Drawings sheets not an acceptable size. Fig(s): _____	Shade lines; pale, rough and blurred. Fig(s): _____
4. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes:	12. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p)
21.0 cm by 29.7 cm (DIN size A4)	Numbers and reference characters not plain and legible. Fig(s): _____
21.6 cm by 27.9 cm (8 1/2 x 11 inches)	Figure legends are poor. Fig(s): _____
All drawing sheets not the same size: Sheet(s): _____	Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1)
Sheet(s): _____	English alphabet not used. 37 CFR 1.84(p)(2)
Drawings sheets not an acceptable size. Fig(s): _____	Fig(s): _____
5. MARGINS. 37 CFR 1.84(g): Acceptable margins:	Numbers, letters and reference characters must be at least .32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3)
Top 2.5 cm Left 2.5cm Right 1.5 cm Bottom 1.0 cm	Fig(s): _____
SIZE: A4 Size	13. LEAD LINES. 37 CFR 1.84(q)
Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm	Lead lines cross each other. Fig(s): _____
SIZE: 8 1/2 x 11	Lead lines missing. Fig(s): _____
Margins not acceptable. Fig(s): _____	14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(l)
Top (T) Left (L) Right (R) Bottom (B)	Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheet(s): _____
Right (R) Bottom (B)	15. NUMBERING OF VIEWS. 37 CFR 1.84(u)
6. VIEWS. 37 CFR 1.84(h)	Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s): _____
REMINDER: Specification may require revision to correspond to drawing changes.	16. CORRECTIONS. 37 CFR 1.84(w)
Partial views. 37 CFR 1.84(h)(2)	Corrections not made from prior PTO-948 dated _____
Brackets needed to show figure as one entity. Fig(s): _____	
Views not labeled separately or properly. Fig(s): _____	17. DESIGN DRAWINGS. 37 CFR 1.152
Enlarged view not labeled separately or properly. Fig(s): _____	Surface shading shown not appropriate. Fig(s): _____
7. SECTIONAL VIEWS. 37 CFR 1.84 (h)(3)	Solid black shading not used for color contrast. Fig(s): _____
Hatching not indicated for sectional portions of an object. Fig(s): _____	
Sectional designation should be noted with Arabic or Roman numbers. Fig(s): _____	

COMMENTS

REVIEWER CBRDATE 8/31/99 TELEPHONE NO. 703 305 8906ATTACHMENT TO PAPER NO. 5